1)- Take an input string like-

String input = "Hello JavaTpoint";

You need to write the program to reverse the String?

Answer:-

public class tut{

public static void main(String []args){

String str="Hello JavaTPoint";

System.out.print("Reversed string is : ");

System.out.println();

for(int i=0;i<str.length();i++){

System.out.print(str.charAt(str.length()-i-1));

}

}

}

2->Write a program to print the prime number between 1 to 20.

Answer:-

public class tut{

public static void main(String []args ){

System.out.print("Prime numbers in betweeen 1 to 20 are : ");

System.out.println();

for(int i=2;i<21;i++){

int j=2;

boolean t=true;

while(j<i){

if(i%j==0){

t=false;

}

j++;

}

if(t){

System.out.print(i + " ");

}

}

}

}

3-> Write a program to print the table of 2 to 5 numbers.

Answer:-

public class tut{

public static void main(String []args ){

System.out.print("table of 2 to 5 are : ");

System.out.println();

for(int i=2;i<6;i++){

for(int j=1;j<11;j++){

System.out.print(i\*j + " ");

}

System.out.println();

}

}

}

4-> Write a program to print the even and odd numbers between 1 to 20.

Answer:-

public class tut{

public static void main(String []args ){

System.out.print("Even numbers in between 1 to 20 are :");

System.out.println();

for(int i=2;i<21;i+=2){

System.out.print(i + " ");

}

System.out.println();

System.out.print("Odd numbers in between 1 to 20 are :");

System.out.println();

for(int i=1;i<21;i+=2){

System.out.print(i + " ");

}

}

}

5-> Write a program to print the division of Student marks based on percentage.

Like: Dictation, first division, second division, third division, fail.

Solve the program by if-else and switch statements.

Answer:-

public class tut{

public static void main(String []args ){

int marks=98;

if(marks>=75){

System.out.println("Dictation");

}

else if(marks>=60){

System.out.println("First division");

}

else if(marks>=48){

System.out.println("second division");

}

else if(marks>=33){

System.out.println("Third division");

}

else{

System.out.println("Fail");

}

}

}

6-> Write a program for factorial 8;

Answer:-

public class tut{

public static void main(String []args ){

System.out.println("Factorial of 8 is : ");

int fac=1;

for(int i=8;i>1;i--){

fac\*=i;

}

System.out.println(fac);

}

}

7-> Write a program to swap the a and b numbers. Where int a = 5; int b = 10;

Answer:-

public class tut{

public static void main(String []args ){

int a=5,b=10;

int temp=a;

a=b;

b=temp;

System.out.println("Swapped numbers are : ");

System.out.println("a=" + a);

System.out.println("b=" + b);

}

}

8-> Write a program to print the given number is leap year or not. Where your

number is int year = 1990;

Answer:-

public class tut{

public static void main(String []args ){

int year=1990;

if(year%100==0){

if(year%400==0){

System.out.println(year + " is a leap year");

}

else{

System.out.println(year + " is not a leap year");

}

}

else{

if(year%4==0){

System.out.println(year + " is a leap year");

}

else{

System.out.println(year + " is not a leap year");

}

}

}

}

9-> Write a program to Print a solid Diamond Star Pattern.

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public class assignment {

public static void pt1(int n){

int gap=n/2;

for(int i=0;i<=(n/2);i++){

for(int j=0;j<gap;j++){

System.out.print(" ");

}

gap--;

for(int j=0;j<=i;j++){

System.out.print("\* ");

}

System.out.println();

}

for(int i=n/2;i>0;i--){

for(int j=0;j<=gap+1;j++){

System.out.print(" ");

}

gap++;

for(int j=0;j<i;j++){

System.out.print("\* ");

}

System.out.println();

}

}

public static void main(String[] arg){

int n=11;

pt1(n);

}

}

10->Write a Program to Print the Pant's style Star Pattern.

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Answer:-

public class assignment {

public static void pt2(int n){

for(int i=0;i<2\*n-1;i++){

System.out.print("\*");

}

System.out.println();

for(int i=n-1;i>0;i--){

for(int j=i;j>0;j--){

System.out.print("\*");

}

for(int j=0;j<2\*(n-i)-1;j++){

System.out.print(" ");

}

for(int j=i;j>0;j--){

System.out.print("\*");

}

System.out.println();

}

}

public static void main(String[] arg){

int n=11;

pt2(5);

}

}

11-> Write a Program to Print the Inverted Pant's Shape Star Pattern.

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Answer:-

public class assignment {

public static void pt3(int n){

for(int i=1;i<n;i++){

for(int j=i;j>0;j--){

System.out.print("\*");

}

for(int j=0;j<2\*(n-i)-1;j++){

System.out.print(" ");

}

for(int j=i;j>0;j--){

System.out.print("\*");

}

System.out.println();

}

for(int i=0;i<2\*n-1;i++){

System.out.print("\*");

}

System.out.println();

}

public static void main(String[] arg){

int n=11;

pt3(5);

}

}

12-> Find out the 3rd max element from the array with a single loop.

int[] arr = {22,100,44,11,22,100,77,44,11};

public class assignment {

public static void main(String[] arg){

int[] arr={219,199,149,176,89,60,90,10,15,88,75,1,5,99,85,100};

int[] ar={arr[0],-1,-1};

for(int i=1;i<arr.length;i++){

if(ar[1]==-1){

if(arr[i]>ar[0]) ar[1]=arr[i];

else{

ar[1]=ar[0]; ar[0]=arr[i];

}

}

else if(ar[2]==-1){

if(arr[i]>ar[1]) ar[2]=arr[i];

else if(arr[i]>ar[0]){

ar[2]=ar[1]; ar[1]=arr[i];

}

else{

ar[2]=ar[1]; ar[1]=ar[0]; ar[0]=arr[i];

}

}

else if(arr[i]>ar[2]){

ar[0]=ar[1]; ar[1]=ar[2]; ar[2]=arr[i];

}

else if(arr[i]>ar[1]){

ar[0]=ar[1]; ar[1]=arr[i];

}

else if(arr[i]>ar[0]){

ar[0]=arr[i];

}

}

System.out.println(ar[0]);

}

}